



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,216	11/14/2001	John Kuo	MR1115-365	6725

4586 7590 06/24/2004

ROSENBERG, KLEIN & LEE  
3458 ELLICOTT CENTER DRIVE-SUITE 101  
ELLICOTT CITY, MD 21043

EXAMINER

PEACHES, RANDY

ART UNIT PAPER NUMBER

2686

DATE MAILED: 06/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/987,216

Applicant(s)

KUO ET AL.

Examiner

Randy Peaches

Art Unit

2686

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. ***Claims 1 and 2*** are rejected under 35 U.S.C. 102(e) as being anticipated by Kumar (U.S. Patent Number 6,640,268 B1).

Regarding ***claim 1***, Kumar discloses transmission method of wireless virtual channels comprising a wireless peripherals (102), e.g. wireless keyboard, wireless mice, etc., which reads on claimed "child device", and a host device (100), both of the said wireless peripherals (102) and the host device (100) storing Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD), which reads on claimed "number of sets of family ID and security ID", the said wireless peripherals (102) being the emitter and the host device (100) being the receiver, the said wireless peripherals (102) sending said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD) by touching at least one activation unit to the host device (100) which receives and identifies the sending said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses

Art Unit: 2686

(PADD). See column 5 lines 35-65.

Regarding **claim 2**, according to **claim 1**, Kumar further discloses a transmission method wherein the transmission process comprises the following steps:

- selecting the same said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD) on both of the wireless peripherals (102), and the host device (100). See columns 5 and 6 lines 66-67 lines 1-9, respectively;
- using the said wireless peripherals (102) as the emitter to send wireless data. See columns 1 and 6 lines 60-62 line 41;
- inserting the said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD) to each string of wireless data. See columns 5 lines 66-67.
- using the said host device (100) as the receiver to receive wireless data. See column 1 lines 35-37.
- detecting each string of wireless data if a matching said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD) are included. See columns 5 and 6 lines 66-67 lines 1-9, respectively; and
- receiving and handling the string of wireless data. See columns 1 and 2 lines 65-67 lines 1-4.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. ***Claims 3 and 4*** are rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar (U.S. Patent Number 6,640,268 B1) in view of Leifer et al (U.S. Patent Number 6,280,327 B1).

Regarding ***claim 3***, according to ***claim 1***, Kumar further discloses wherein the setting of the same set said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD) comprises the following steps:

- the said host device (100) after being turned on the power being ready to receive a Peripheral ID's (PFID), which reads on claimed "new SID", from the said wireless peripherals (102) as the emitter. See column 5 lines 60-65;
- the said wireless peripherals (102) sending data string containing a predefined set of Peripheral Addresses (PADD) / Peripheral ID's (PFID) to the said host device (100). See column 1 lines 35-37
- the host device (100) using the set said Peripheral ID's (PFID) / Peripheral Addresses (PADD) emitted from the said wireless peripherals (102) as the

renewed set of Peripheral ID's (PFID) / Peripheral Addresses (PADD). See column 5 lines 60-65; and

- both the said wireless peripherals (102) and the said host device (100) conducting wireless data transmission through the set of said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD). See columns 5 and 6 lines 66-67 lines 1-9, respectively.

However, Kumar does not teach of at least one activation unit on the said wireless peripherals (102) being operated.

Leifer et al discloses in column 4 lines 19-30, where a trigger switch (36) is activated to initiate communication with a host device.

Therefore at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify Kumar (U.S. Patent Number 6,640,268 B1) to include Leifer et al (U.S. Patent Number 6,280,327 B1) in order to incorporate an activation button on a said wireless peripheral, which is referenced above as a trigger switch, used to initiate communication with a said host device.

Regarding **claim 4**, as the combination of Kumar (U.S. Patent Number 6,640,268 B1) and Leifer et al (U.S. Patent Number 6,280,327 B1) are made, the combination according to **claim 1**, further, as taught by Kumar wherein the said wireless peripherals (102) contains a non-volatile memory, which reads on claimed "memory", as referenced in column 5 lines 50-65, and the setting of the same set said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD) on

both of the said wireless peripherals (102) and the host device (100) comprising the following steps:

- at least one activation unit on the said wireless peripherals (102) being operated;
- the said wireless peripherals (102) sending data string containing a set of said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD) for a period of time. See column 6 lines 31-35
- at least one activation unit on the host device being operated;
- the host device (100) receiving the set of said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD). See column 6 lines 10-35
- the said wireless peripherals (102) storing the set of said Peripheral ID's (PFID) and Peripheral Addresses (PADD) in the said non-volatile memory. See column 5 lines 50-65; and
- both the said wireless peripherals (102) and the host device (100) conducting wireless data transmission through the set of said Host ID's (HostID) / Peripheral ID's (PFID) and Host Addresses (HADD) / Peripheral Addresses (PADD). See columns 5 and 6 lines 66-67 lines 1-9, respectively.

Leifer et al discloses in column 4 lines 19-30, where a trigger switch (36) is activated to initiate communication with a host device.


**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (703) 305-8993. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (703) 305-4379. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Randy Peaches  
June 21, 2004

  
6-21-2004

NGUYEN T. VO  
PRIMARY EXAMINER